

Winter Weather Briefing

Saturday, January 04, 2014



For South Central Indiana and Central Kentucky

Prepared 1/4/2014 2:30PM EST

Mark Jarvis

Ted Funk

Brian Schoettmer

Ryan Sharp

lmk.ops@noaa.gov

NWS Louisville KY

National Weather Service – Louisville, Kentucky



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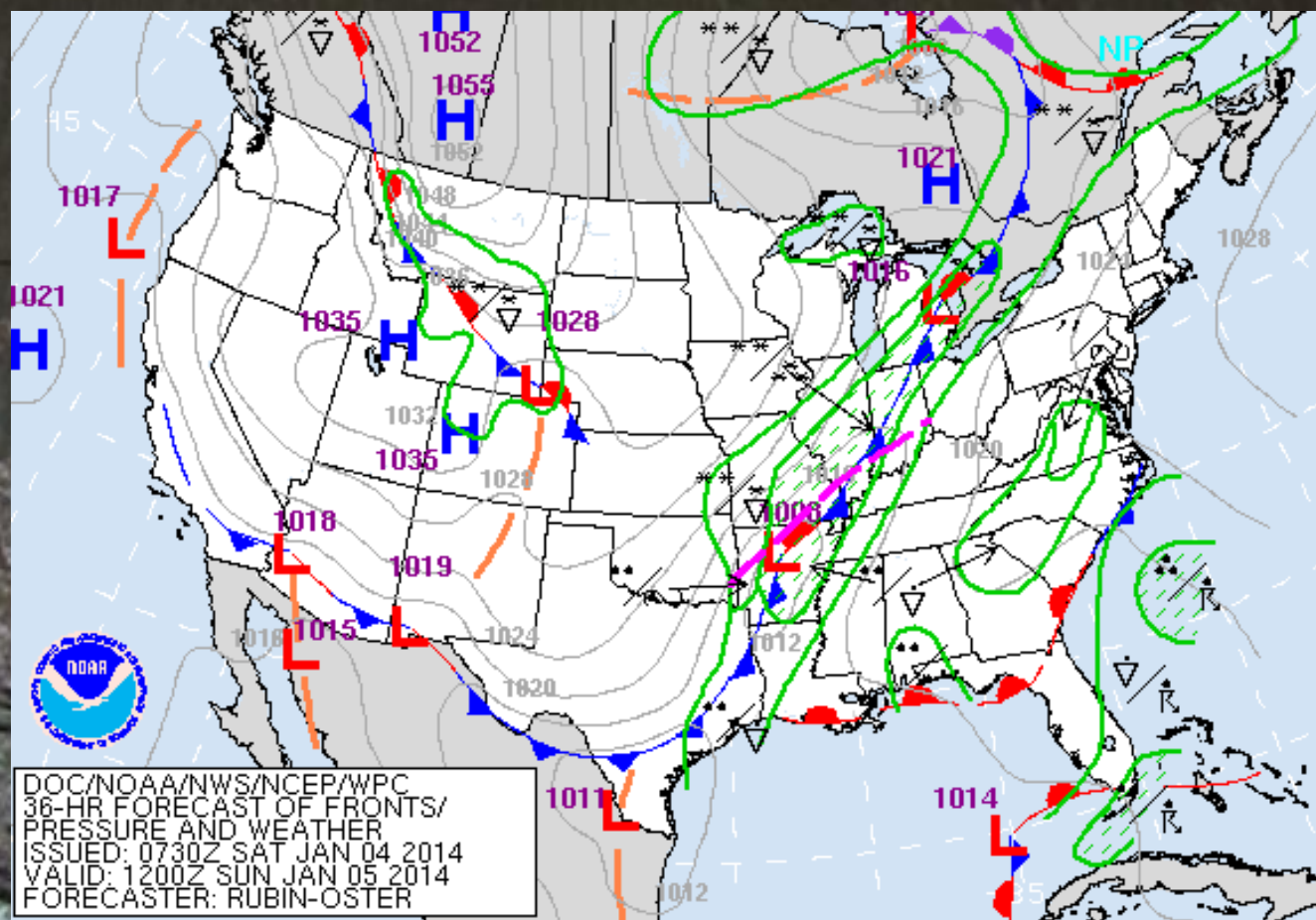


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Snow and Arctic Blast on the Way



- A potent winter storm will drop a swath of heavy snow from the central Mississippi Valley to the eastern Great Lakes through Monday
- Significant snow will occur along and north of the Ohio River with lighter accumulations south of the river

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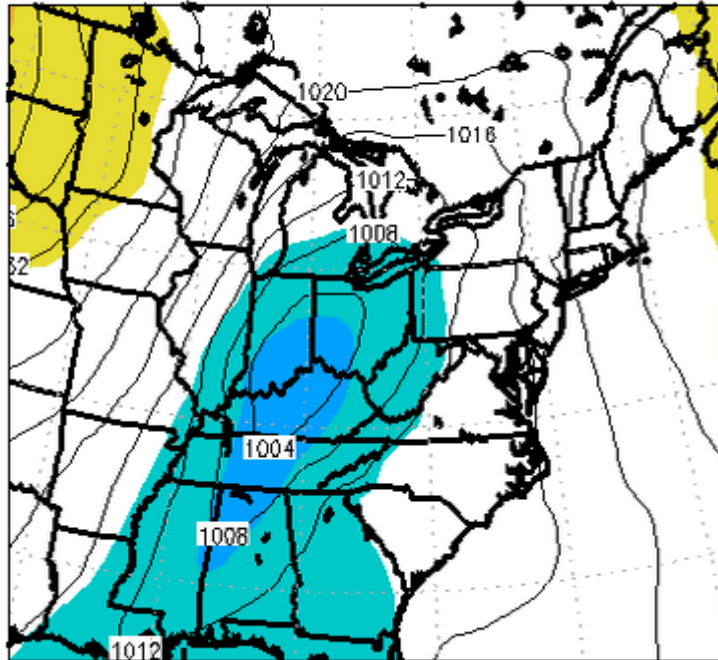


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Anomalous System



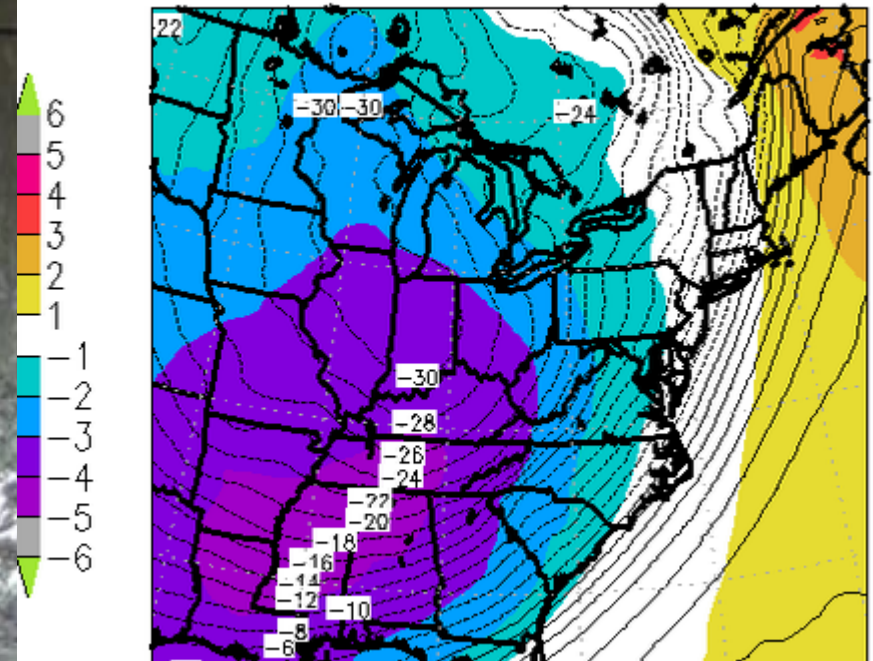
b. SREF Consensus Forecast (contour) & Normalized Anomaly shaded)



- Pressure anomalies Sunday afternoon

- Temperature anomalies Monday afternoon

b. SREF Consensus Forecast (contour) & Normalized Anomaly shaded)



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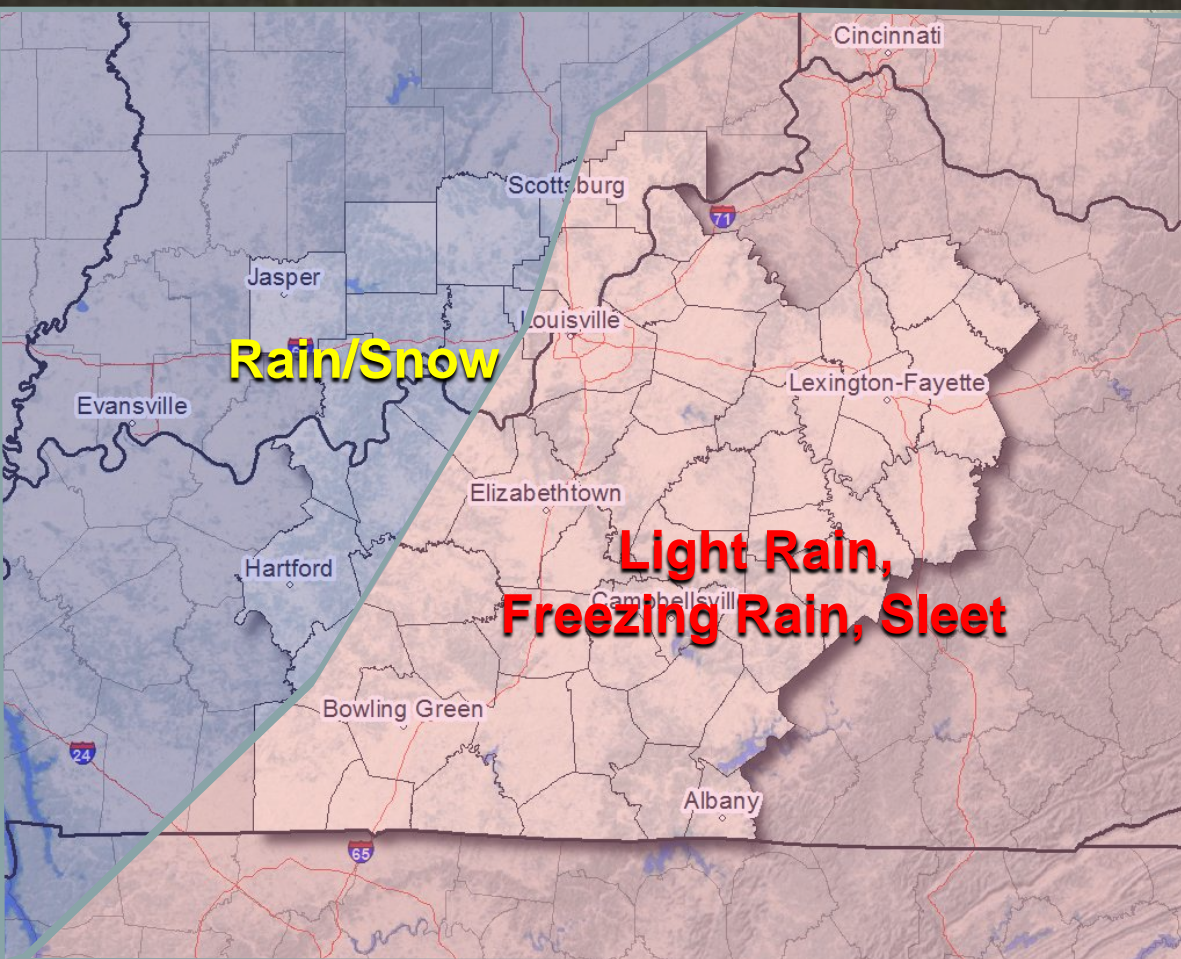
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Timing – 7 AM Sunday



The event looks to start off with a light wintry mix across much of the area. Further northwest, snow will mix with rain. Little or no accumulation is expected at the onset.

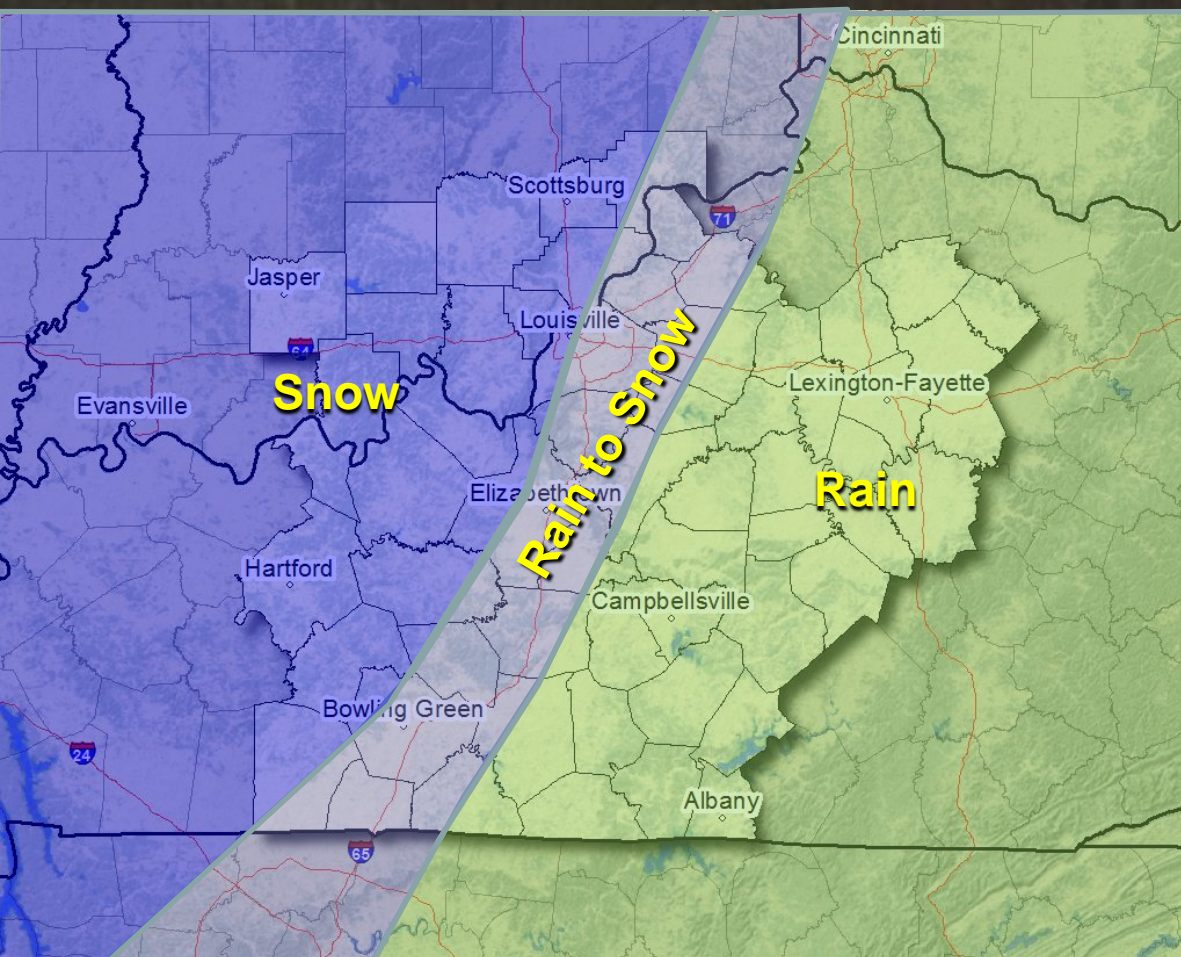
Timing – 1 PM Sunday



Warm air will surge into most of central Kentucky and parts of southeast Indiana ahead of a strengthening surface low. The low then will track just south of the Ohio River. As the low passes, rain will quickly change to snow across extreme NW portions of our warning area.



Timing – 4 PM Sunday

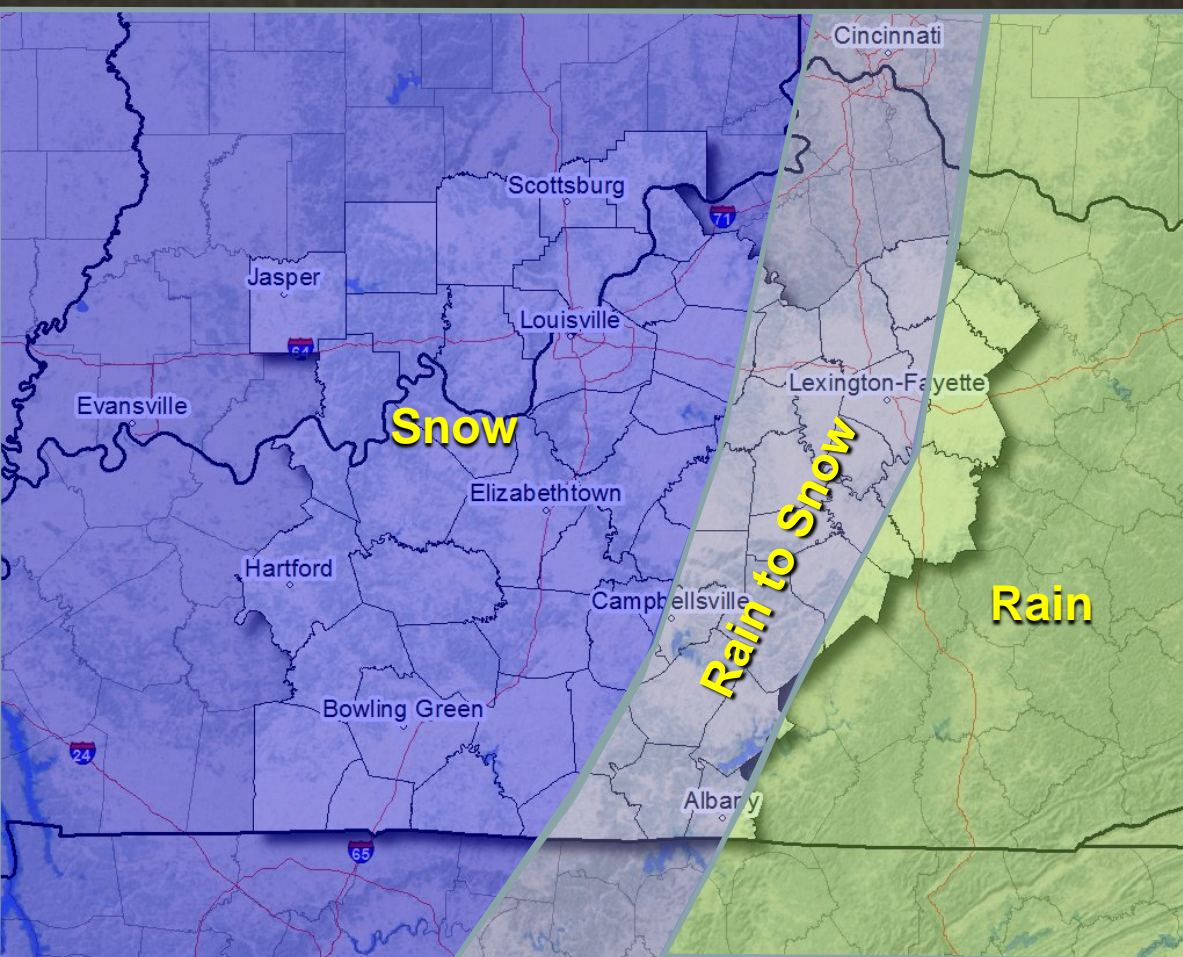


Cold air will begin crashing into the region from west to east as a strong Arctic front barrels through. Precipitation will rapidly transition from rain to snow as this occurs. Periods of moderate to heavy snow will likely bring quick accumulations.

Winds will be increasing from west to east as the front passes, with gusts of 20-30 mph within the snow area on the map. Blowing snow is a good possibility.



Timing – 7 PM Sunday



The snow line will continue to progress eastward through the evening hours. Temperatures will continue to crash, with blowing snow still likely, under gusts of 30-35 mph.

With temperatures falling as fast as they will, a flash freeze is possible through the evening and overnight.

Timing – 11 PM Sunday

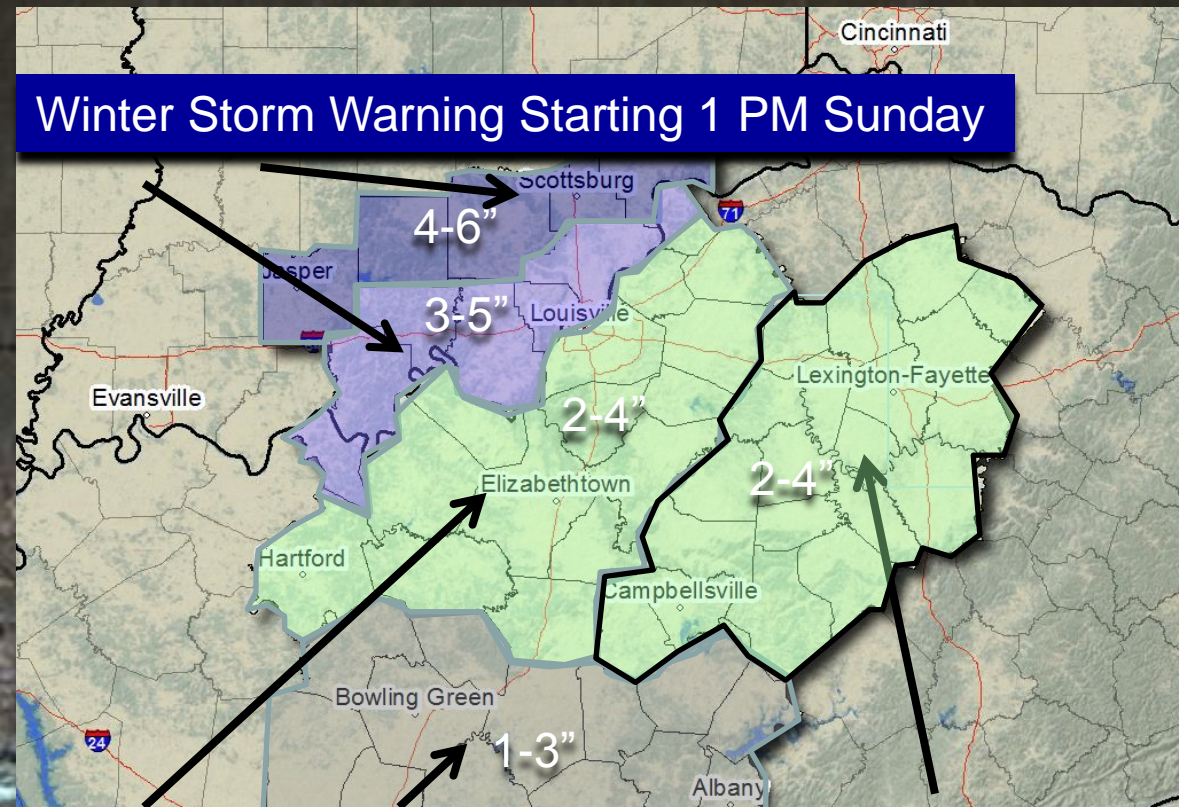


Snow showers will linger into the overnight and temperatures will fall toward the single digits across central Kentucky and below zero across southern Indiana by dawn on Monday.

Winter Storm Headlines for Sunday



Winter Storm Warning Starting 1 PM Sunday



Winter Weather Advisory
Starting 3 PM Sunday

Winter Weather Advisory
Starting 6 PM Sunday

Note: All times listed above are EST

- Although as is nearly always the case in the OH Valley, some uncertainty still exists in the forecast track of this weather system, the currently preferred track would yield at least light snow accumulations for much of the area by Sunday night.
- Bitterly cold temps will follow (see following slides)

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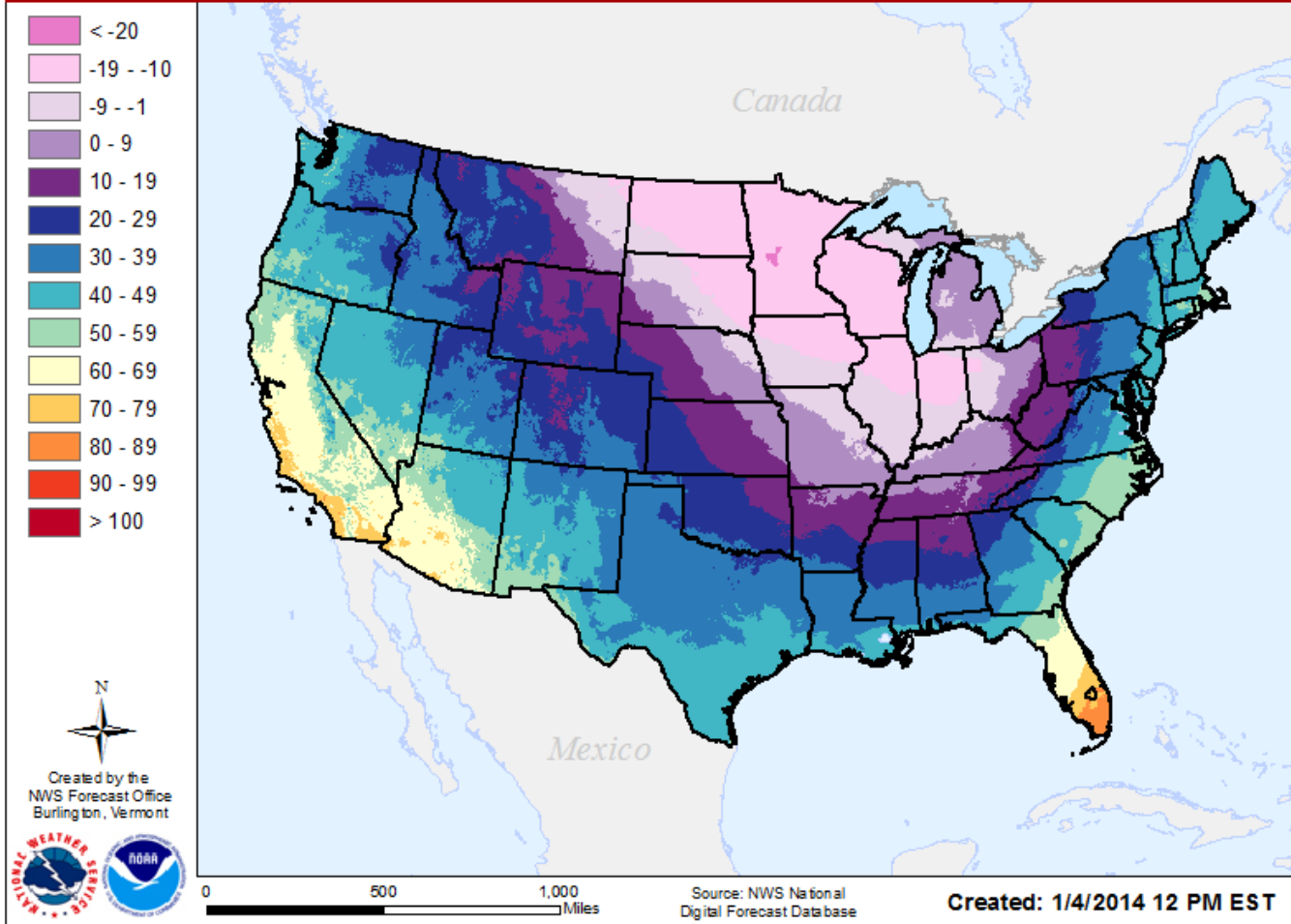


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Maximum Temperature Forecast - January 06, 2014



- Following the snowfall, arctic air will surge into region. Sub-zero temperatures will occur along and north of the Ohio by Monday morning, and as far as the TN border by Tuesday morning.

Forecast Daytime High Temperatures Monday, Jan 6, 2014

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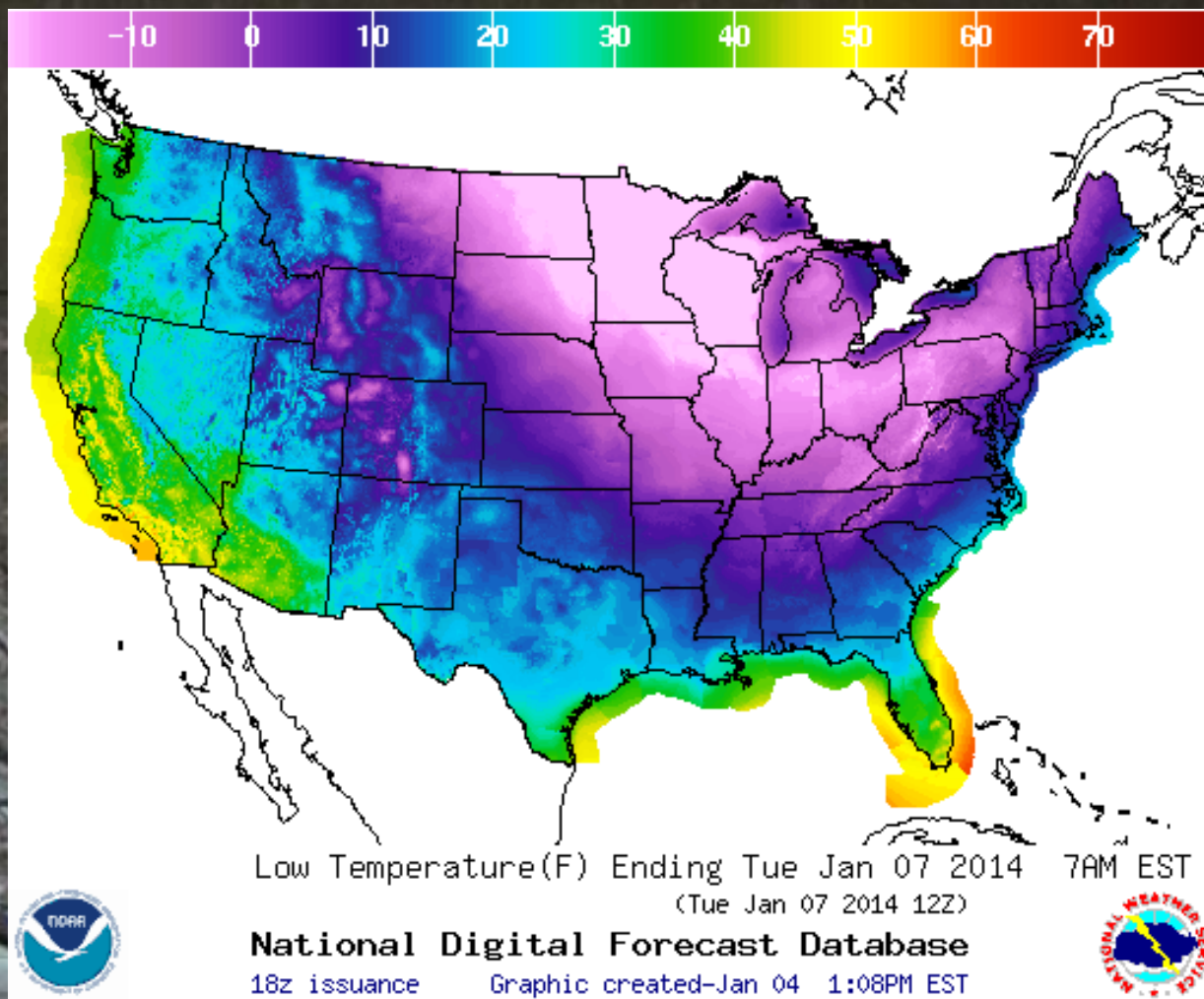


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- Some areas will remain below zero for more than 24 hours Monday through Tuesday.

Forecast Low Temperatures Tuesday morning, Jan 7, 2014

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Arctic Wind Chills



25-39
N-S early –
dropping
through
the day to
0-29 by
evening

**Wind Chills colder
than -18 can cause
frostbite in 30 min.**

“Warming”
to

PM +5
to
-12

+8
to
-8

AM -12
to
-30

-5
to
-25

-10
to
-32

-14
to
-32

Sunday

Sunday
Night

Monday

Monday
Night

Tuesday

Tuesday
Night

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